

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

**Algebra II GHP**

**Practice 6-1A: Solving Equations by Taking Square Roots WS 1**

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**Solve each of the following quadratic equations by taking square roots.**

1.  $5x^2 = 80$

2.  $x^2 - 4 = 0$

3.  $3y^2 = 32$

4.  $9x^2 = 25$

5.  $3x^2 + 15 = 0$

6.  $5x^2 - 40 = 0$

7.  $3x^2 - 80 = 0$

8.  $12x^2 + 147 = 0$

9.  $16x^2 - 20 = 5$

10.  $100x^2 - 21 = -142$

11.  $7x^2 - 243 = 0$

12.  $(x + 3)^2 = 9$

13.  $(x + 4)^2 - 9 = 16$

14.  $7 + (y - 3)^2 = 56$

15.  $(2x - 5)^2 = 81$

16.  $(3 - 2x)^2 = 289$

17.  $4(2x - 1)^2 = 49$

18.  $2(3 + x)^2 - 3 = 47$